

Title (en)
Spread-spectrum system and method

Title (de)
Spreizspektrumsystem und -verfahren

Title (fr)
Système et procédé à spectre étalé

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Application
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Abstract (en)
A spread-spectrum system and method for providing high-capacity communications through multipath compensation, for automatically and adaptively controlling a mobile user's spread-spectrum transmitter power level when operating in a cellular communications network, and for providing variable or adjustable signal bandwidth capabilities in a spread spectrum transmitter. Multipath compensation is accomplished using a plurality of filters 121-126, a plurality of multipliers 111-116, and a plurality of weighting devices 131-136, coupled through a first adder 120 and a second adder 130 to a decision device 150. The adaptive power control device of the present invention includes a base station having an AGC amplifier 228, despreader 231, comparator 239, power amplifier 237, delta modulator 235, multiplexer 234, combiner 236 and power measurement device 233. The adaptive power control device also includes a mobile station having a despreader 334, demultiplexer 339, demodulator 340, decision device 345, accumulator 346, step size algorithm device 344, variable gain device 341 and transmitter 342. The variable bandwidth device includes a chipping sequence generator 161, impulse generator 165, product device 164 and filter 166.

IPC 1-7
H04B 1/707; **H04B 7/26**; **H04B 7/005**; **H04B 14/02**; **H04J 13/00**

IPC 8 full level
G06F 17/10 (2006.01); **H03G 3/30** (2006.01); **H04B 1/04** (2006.01); **H04B 1/707** (2011.01); **H04B 1/7115** (2011.01); **H04B 1/712** (2011.01); **H04B 7/005** (2006.01); **H04B 7/26** (2006.01); **H04J 13/00** (2011.01); **H04J 13/16** (2011.01); **H04W 52/22** (2009.01); **H04W 52/52** (2009.01); **H04W 84/00** (2009.01); **H04B 1/709** (2011.01); **H04B 1/7093** (2011.01); **H04J 13/10** (2011.01); **H04W 52/36** (2009.01)

IPC 8 main group level
H04B (2006.01)

CPC (source: EP FI US)
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